CLIPSAL

STAR SERVE®

Home Networking SOLUTIONS

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Are you Digital Ready?

It is not uncommon for families to have more than three televisions in the one household. Families are now enjoying the benefits of the digital age for entertainment and education.

Digital TV is “free to view” and has many benefits over the old analogue system. These benefits include:

- sharper pictures
- clearer sound
- wide screen
- extra channels
- radio channels
- electronic program guides.

You should have a digital ready cabling system for your home before the analogue cut-off in approximately 2012.

Deadline for analogue TV

Analogue TV signals will be cut off in the not too distant future. This means that if you are building a new home you should install digital TV cabling.

Don’t get caught out with an inferior installation. You may be disappointed and out of pocket if you have to re-cable your home.

What will happen if my cabling system is not ready for digital TV?

If your cabling system is not digital TV ready, you may experience the following:

No picture at all – Gone are the days of snowy and fuzzy pictures, if the signal is of a poor quality due to the cabling system then you may not be able to view a digital signal at all

Intermittent picture/No picture – You may receive a digital TV signal but it may drop in and out while you are watching your favourite shows

Boxing – Large blocks within a picture that occurs when the signal received is distorted

Pixelation – Small boxing of the picture. It generally affects the overall picture, not just a small block.

The ingredients for crystal clear pictures

Digital Antenna

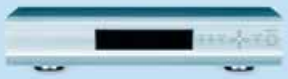
F-Type Splitter

RG6 Quadshield Cable

F-Type Connectors

F-Type Wall Plate

Fly Lead



Set Top Box

Standard TV, LCD TV or Plasma TV

Demand the Best - Demand Digital Ready

StarServe in your Home

Building a new home

When building a new home you have the opportunity to create a digital ready home. This is an exciting time and the options for your new home are endless. Take the time to consider your requirements for today and tomorrow, such as:

- Digital TV
- Internet
- Networking
- Surveillance
- Pay TV
- Telephone
- Audio distribution.

These are preferred options for people building a new home and will add significant value to your house, if you decide to sell in the future. Proper planning can avoid disappointments after the building has been completed.

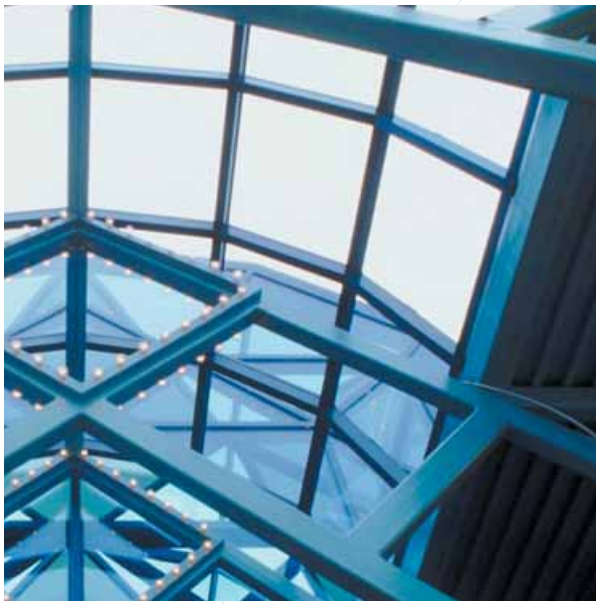
It is a lot easier and cost effective to install while you are building than to try to retrofit afterwards. You must have a TV outlet in every location that you wish to have a television.

Renovating an existing home

Renovating is the perfect time to get a digital health check.

While you have your electrician on-site, they can quickly check your current installation and advise if you need to upgrade your cabling.

You can replace an old redundant system with a new digital ready system. You may also wish to add some telephone outlets for internet access within different rooms.



StarServe: The next level

StarServe is the next level of TV distribution for your home. With traditional TV systems you are restricted to the lounge room to watch a video, DVD or pay TV.

Now with the Clipsal StarServe System you can independently watch any of these devices and free to air TV, from any room connected to Clipsal StarServe.

For example: You can watch pay TV in your master bedroom, a DVD in the study, a video in the rumpus room and free to air TV in your lounge room, all at the same time.

Everyone gets to watch what they want, when they want without any arguments.

How do I control my DVD, pay TV and video in the other rooms without going back to the lounge?

The Clipsal StarServe System can remotely control your DVD, pay TV or video from any location in your home fitted with a Clipsal Remote Control Target. There is no need to run extra cabling through the walls. You can add your Remote Control Targets at any time during or after installation.

This target combined with an emitter lead in your lounge room can change the device you want to control.

For example: You want to watch a DVD in your bedroom.

You simply aim the DVD remote control at the remote control target and press play. This sends the DVD's remote control signal back to the DVD via the Digital Ready Coax to the lounge room. The emitter leads in the lounge room emit the DVD remote control signal to the DVD, and the DVD starts to play. It's so simple.

You can use all functions of the remote controls as if you were in the same room as the device you are controlling.

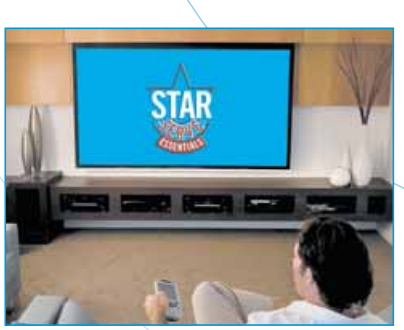
StarServe in your Home

Surveillance cameras

If you have a surveillance camera at your front door, you can watch it from any TV connected to the StarServe System. It is just like having another channel to watch.

You may be upstairs and it is late. The doorbell rings. It's a bit late for visitors. Who could it be? Turn to the surveillance camera channel on your TV and see who it is without getting out of bed.

You can also use the TV outlet in the baby's room to set up a camera to watch your baby. This makes a great baby monitor and you can remove it at any time. You can watch the baby from any room with a TV connected to the Clipsal StarServe System.



See who's at the front door without leaving your chair

Infrared Video and Telephone Distribution Unit

5 Port Ethernet Data Networking Hub

8 Port Telephone and Fax Distributor

Internet, telephone, fax and networking

The Clipsal StarServe System can also distribute internet, telephone, fax and data networking to any room in your home.

You can network computers together for gaming and sharing printers or scanners.

This flexible cabling system is like the data networks used in businesses. It's fast, reliable and easy to manage.

Wired for sound

Would you like multi-room sound in your new home? Want to avoid the ugly mess of speaker cables running across your floors?

You can have your home wired for sound with Clipsal Speaker Cables and Accessories.

Clipsal can also provide you with speakers for your new home.

In fact you can have speakers wherever you want them. Perhaps you would like a set of ceiling speakers in the kitchen. Listen to your favourite music or the radio with high quality sound.

Any room in the home can be wired for sound.

Wall Mount Speakers

Infrared Distribution System

Universal Handheld Infrared Remote

Clipsal Audio Solutions Brochure
O/N 11173

For further information contact your Clipsal representative or refer to the Clipsal Audio Solutions Brochure.

Demand the Best - Demand Digital Ready

StarServe Installation Made Easy

STEP 1 — Plan Your Installation

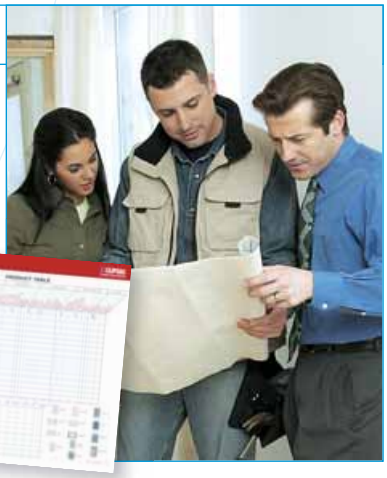
There is no substitute for good planning when it comes to organising digital services. Make sure the home owner makes good use of

The Essential Checklist Project Planner.

Q: How many TV outlets do I need?

Q: Do I require the remote control facility?

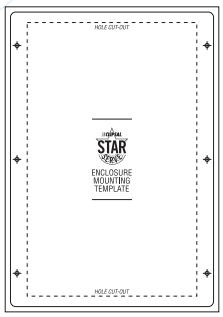
Q: How many phone/internet/fax outlets do you need?

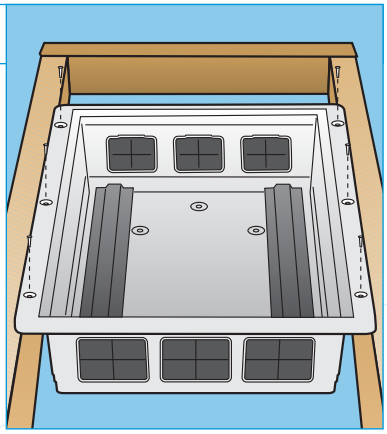


STEP 2 — Mounting the Enclosure

Select a suitable location for the enclosure in the home - this could be a central location (eg. a linen closet) or a remote location (eg. a garage).

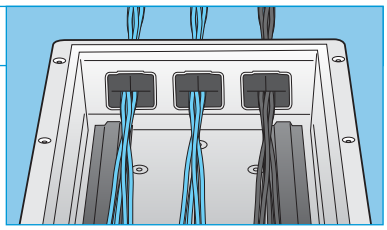
There is a template included with the enclosure to ensure simple installation. The enclosure can be fixed to the wall via the studs or can be fixed in place with suitable wall anchors.



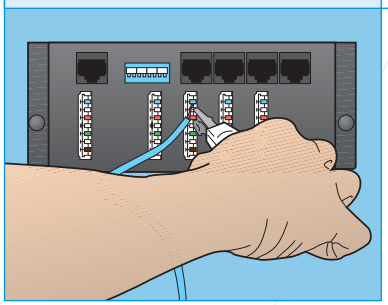


STEP 3 — Inserting Cable in Knockouts

Use a sharp knife to make a suitable incision in the apertures to accommodate the cables. Thread the relevant cables through the top knockout holes (allowing sufficient spare cable at the enclosure).

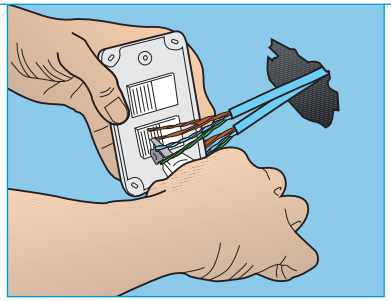


STEP 4 — Terminating Cables



Using a punchdown tool, terminate all relevant cables to the telephone distribution unit within the enclosure.

Terminate all coaxial cables with F-Type connectors.



Terminate all relevant cables to the required wallplates. Many combinations of wallplate are available and they could include any of the outlets shown to the right.

RG6 Quadshield Coax	Analogue and digital free to air and Foxtel/Austar TV services
Cat 5e Data	Telephone, internet, data networking, fax and future digital distribution

StarServe Essentials

The essential digital services required by everyone these days are:

Television
(Free to air and pay TV)

Telephone

Computer

Every home these days requires TV, telephone and computer data outlets. The average household has more than three TVs, two telephones and at least one computer.

The challenge has been to get these essential services installed during the building process. The new homebuyer wants to have these services working when they move in.

Clipsal has made it easy to provide all of these essential services in a compact enclosure that is packed full of features and easy to install, without the heavy price tag.

3105ABEN
Enclosure

The new Clipsal StarServe Essentials range is designed for those who want TV, telephone and computer data services.

The new StarServe Essentials range is easy to install and maintain: there is no messy patching required.

3105ABC
StarServe Starter Pack
(Includes Power Injector)

3105VDU38IRT
Infrared Video and Telephone Distribution Unit

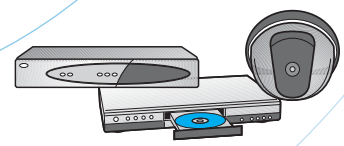
3105VDU24T
Video and Telephone Distribution Unit

3105PI2VDC
Power Supply

Demand the Best - Demand Digital Ready

StarServe Video and Telephone Distribution Units

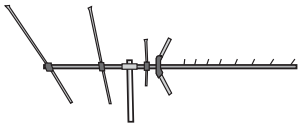
3105VDU24T	2 Inputs to 4 Outlets (without IR)



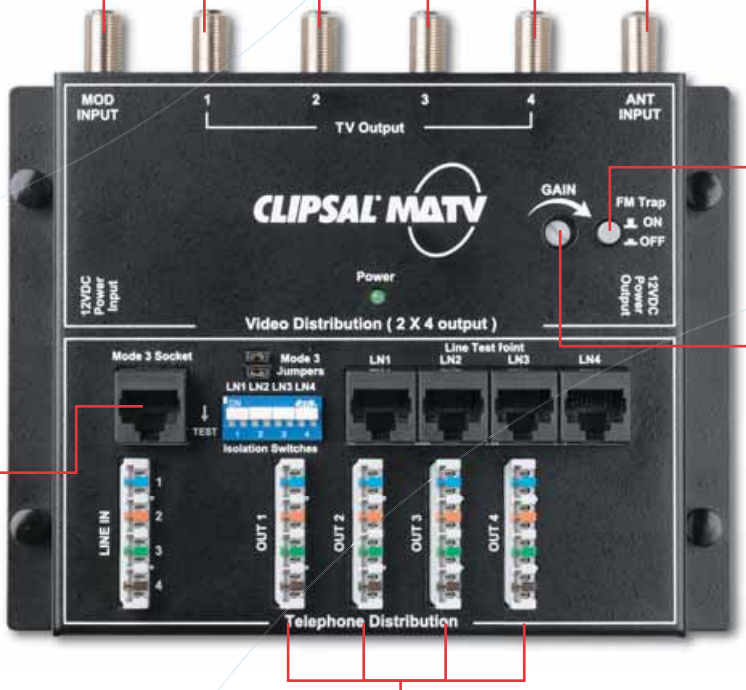
Modulator input for the distribution of other services such as pay TV, DVD, video and surveillance cameras etc, via a modulator to all TV outputs of the VDU

(Modulator sold separately)

Distributes digital ready TV to four locations of your choice

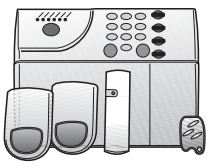


Antenna input



Has a selectable FM trap for filtering out unwanted signals

Variable gain control for adjusting output signal strength to optimum levels



Has a security connection for your security system alarm dialler

Distributes four telephone and fax lines, up to four locations for each line

PLEASE NOTE:
This model DOES NOT support infrared remote control of devices in other rooms.

StarServe Video and Telephone Distribution Units

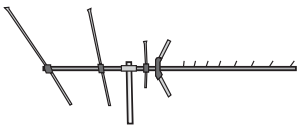
3105VDU38IRT	3 Inputs to 8 Outlets with Infrared Capability

Modulator input 'A' for the distribution of devices such as surveillance cameras via a modulator to all TV outputs of the VDU

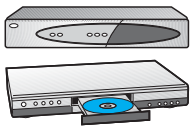
(Modulator sold separately)

Input 'A' has no infrared control

Distributes digital ready TV to eight locations of your choice

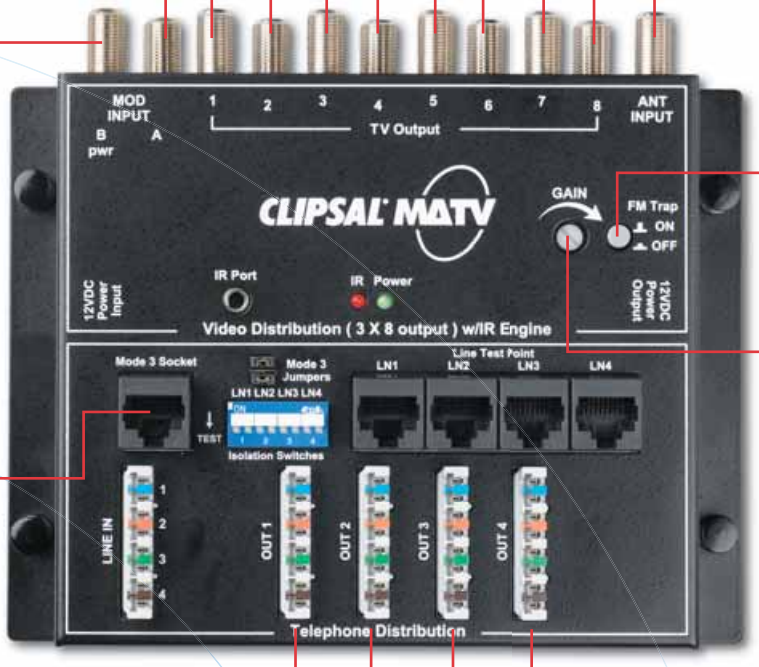


Antenna input



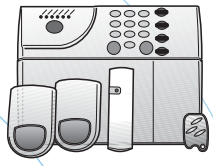
Modulator input 'B' for the distribution of pay TV, DVD, video etc, via a modulator

(Modulator sold separately)

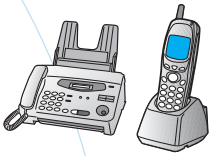


Has a selectable FM trap for filtering out unwanted signals

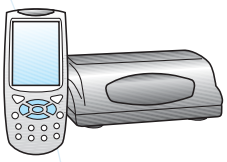
Variable gain control for adjusting output signal strength to optimum levels



Has a security connection for your security system alarm dialler



Distributes four telephone and fax lines, up to four locations for each line



Enables the user to remotely control pay TV and DVDs etc, from another room in conjunction with the Clipsal Infrared (IR) products

Demand the Best - Demand Digital Ready

StarServe Modulators

A modulator is used to convert composite video signals to a selectable UHF frequency, for redistribution to all outlets connected to the Clipsal StarServe Video Distribution Unit. For example, a four channel modulator is used for the distribution of pay TV, DVD, video, plus one other device, to all TVs within the home connected to Clipsal StarServe.

Here is a guide to help you make the right choice:

One Channel Infrared Modulator

Description
Allows the distribution of **1 DEVICE** to all televisions connected to the StarServe Network

Cat Number	Audio	IR	Video
8071VMP	Mono	No	Composite
8071VMS	Stereo	Yes	Composite

Two Channel Infrared Modulator

Description
Allows the distribution of **2 DEVICES** to all televisions connected to the StarServe Network

Cat Number	Audio	IR	Video
8072VMPIR	Mono	Yes	Composite
3105M2SIR	Stereo	Yes	Composite

Four Channel Infrared Modulator

Description
Allows the distribution of **4 DEVICES** to all televisions connected to the StarServe Network

Cat Number	Audio	IR	Video
8074VMPIR	Mono	Yes	Composite
3105M4SIR	Stereo	Yes	Composite

StarServe Infrared Accessories

Infrared Requirements

8050/2LD

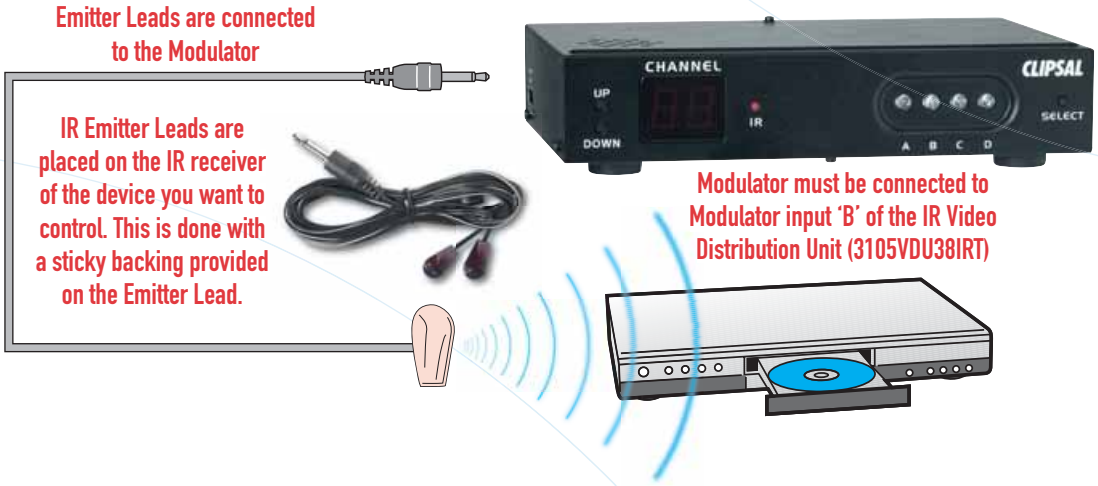
EMITTER LEADS

8050TR

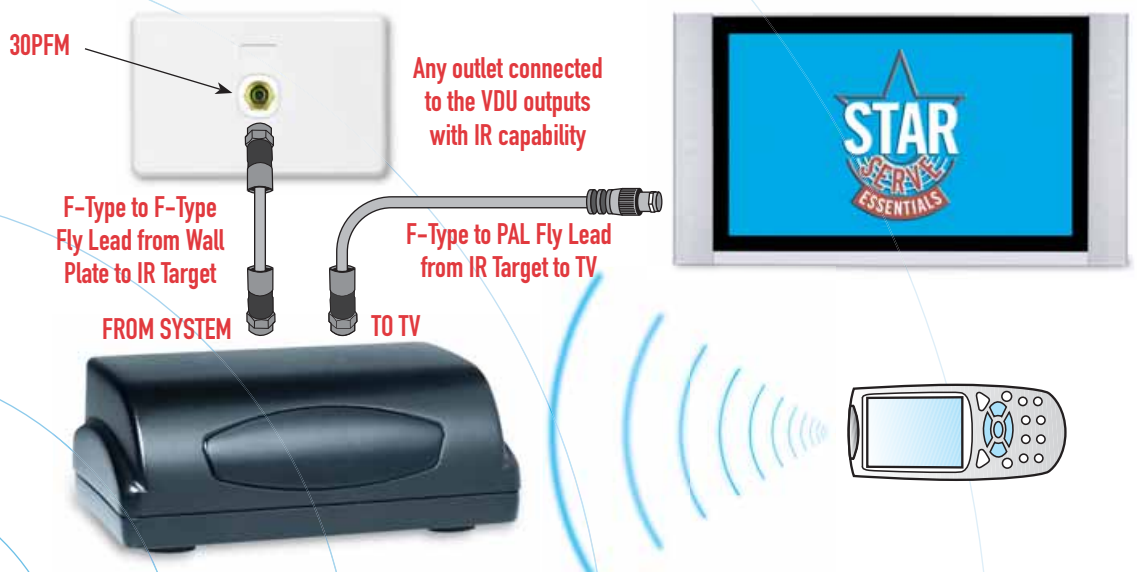
INFRARED TARGET

To remotely control devices from other rooms you will need (in addition to your Clipsal Modulator and IR Video Distribution Unit - 3105VDU38IRT) a set of emitter leads and an infrared target, for EACH ROOM you want to remotely control your devices from.

EMITTER LEADS — Main Entertainment Area


Emitter Leads are connected to the Modulator
IR Emitter Leads are placed on the IR receiver of the device you want to control. This is done with a sticky backing provided on the Emitter Lead.
CHANNEL
UP
DOWN
IR
CLIPSAL
SELECT
A B C D
Modulator must be connected to Modulator input 'B' of the IR Video Distribution Unit (3105VDU38IRT)

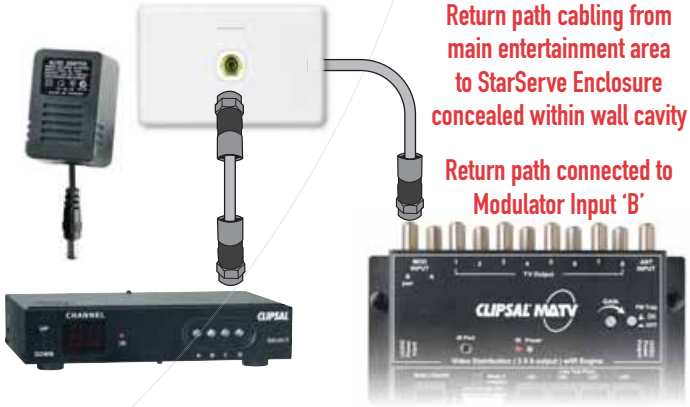
INFRARED TARGET — Other Rooms Requiring Remote Control Facility


30PFM
Any outlet connected to the VDU outputs with IR capability
F-Type to F-Type Fly Lead from Wall Plate to IR Target
F-Type to PAL Fly Lead from IR Target to TV
FROM SYSTEM
TO TV
STAR
SERVE
ESSENTIALS

StarServe Power Options

OPTION 1 — Remotely Powered from the Modulator

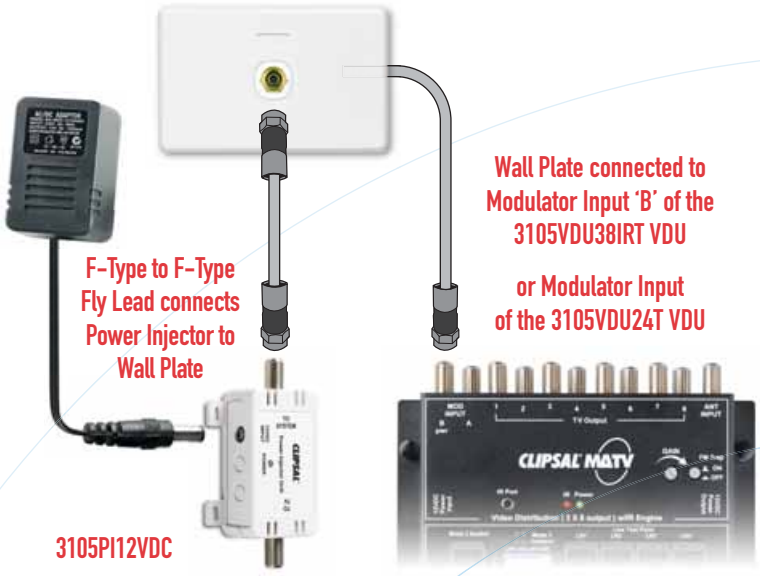
To power the VDU remotely via the modulator, slide the 'remote power' switch on the side of the Clipsal IR Modulator to 'ON'. In this setup, DO NOT connect a Plug Pack directly to the VDU.


Return path cabling from main entertainment area to StarServe Enclosure concealed within wall cavity
Return path connected to Modulator Input 'B'
CLIPSAL MATV

This is the preferred option.

OPTION 2 — Remotely Powered from the Power Injector

The StarServe Video Distribution Unit (VDU) has been designed to be remotely powered, allowing the flexibility of installing the StarServe Enclosure in any location.

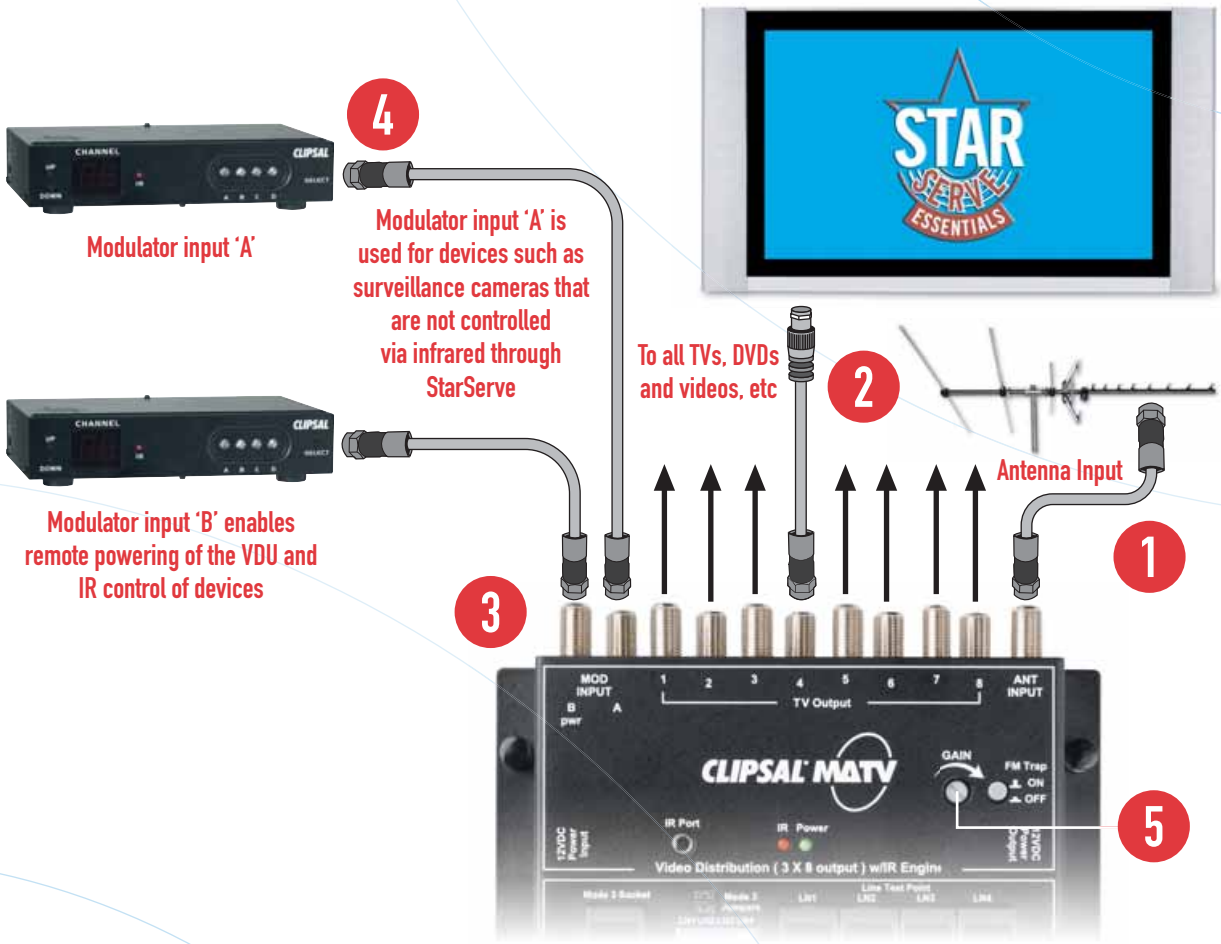

Wall Plate connected to Modulator Input 'B' of the 3105VDU38IRT VDU
or Modulator Input of the 3105VDU24T VDU
F-Type to F-Type Fly Lead connects Power Injector to Wall Plate
3105PI12VDC
CLIPSAL MATV

OPTION 3 — Plug Pack and Video Distribution Unit

Directly connect the 12V d.c. 1 Amp Plug Pack to the 12V d.c. power input jack on the VDU. This option is only recommended for enclosures with power access in a close proximity.

StarServe VDU Wiring Diagram

1. Connect the antenna to the antenna input.
2. Connect up to eight televisions or videos to the TV outputs.
3. Connect the modulator (if required) for pay TV, DVD and videos to modulator input 'B'. This connection is used to power the VDU and allow for the distribution of IR throughout the system.
4. Connect the modulator (if required) for surveillance cameras and other devices to modulator input 'A'.
5. Use the variable gain control to adjust to the optimum signal strength.



FM Trap Switch — Filter out Unwanted Interference

In the event of FM interference affecting TV channels switch to 'ON' position.
NOTE: When 'ON' FM radio frequency will be blocked to all outputs.

Gain Control — Achieve Optimum Signal Strength

The gain control is used to increase or decrease the signal strength received by the antenna. The ideal signal strength for an analogue and digital TV Service is 65-74dbuV. Maximum Gain = +5 dbuV (increase in signal strength). Factory setting Maximum Attenuation = -15dbuV (attenuation is the decrease of signal strength).

- The adjustment of signal strength to all outlets is made easy.
- The Video Distribution Unit (VDU) is treated as ONE TV OUTLET when choosing an appropriate antenna.

Starserve Product Matrix

	3105ABC	3105VDU24T	3105VDU38IRT
TV OUTLETS	1-4	1-4	1-8
IR ENGINE	NO	NO	✔YES
IR TARGETS	NONE	NONE	1-7
PHONE LINES	4 Lines - 4 Extensions per line		

Choosing the Right Enclosure

To choose the correct enclosure, take into consideration the number of cables you have.	3105ABEN	8000LEN	8000MEN	3105PENS	3105PENF
Coax Cables	1 - 11	1 - 11	1 - 11	1 - 21	1 - 21
Telephone Cables	1 - 4	1 - 4	1 - 4	1 - 8	1 - 8
Data Cables	1 - 4	1 - 4	1 - 16	1 - 48	1 - 48
Recessed Finish	YES	Flushing Kit Available (8000LENFK)	Flushing Kit Available (8000MENFK)	NO	YES
Surface Mount Finish	NO	YES	YES	YES	NO
Overall Dimensions mm	383H x 269W x 88D	330H x 210W x 130D	450H x 415W x 145D	880H x 466W x 114D	Frame 954H x 525W Enclosure 880H x 466W x 119D
Cut-out Dimensions mm	356L x 213W	N/A	N/A	N/A	882L x 468W

StarServe Enclosures

3105ABEN — ABS Plastic Enclosure

The StarServe Enclosure is constructed from strong ABS plastic and comes complete with a cut-out template, a set of keys, vertical rails for mounting distribution units and six apertures for inserting cable.

Features include:

- Recessed enclosure
- Flush mount
- Will fit into a 63mm stud wall
- Key lockable
- Strong ABS plastic.

RECOMMENDED CABLE ALLOWANCE	
Coax Cables	1 - 11
Telephone/Internet Cables	1 - 4
Data Cables	1 - 4

Specifications:

Refer to page 14

8000LEN — Lite Metal Enclosures

Features include:

- Removable hinged door
- Easy access
- Surface mountable
- Flush mounting kit available.

Specifications:

Refer to page 14

RECOMMENDED CABLE ALLOWANCE	
Coax Cables	1 - 11
Telephone/Internet Cables	1 - 4
Data Cables	1 - 4

Demand the Best - Demand Digital Ready

StarServe Enclosures

8000MEN	StarServe Mid Size Enclosure

The StarServe Mid Size Enclosure is suitable for today's small office or home office where data networking is required.

You can easily create your own data networking environment; complete with active equipment such as modems and routers. All this comes encased in a neat package.

You also have the flexibility of distributing your television cabling from this multipurpose enclosure and there is plenty of room to add new cabling in the future.

Features include:

- Removable hinged door
- Easy access
- Surface mountable
- Flush mounting kit available (8000MENFK)

Specifications:

Refer to page 14

RECOMMENDED CABLE ALLOWANCE	
Coax Cables	1 - 11
Telephone/Internet Cables	1 - 4
Data Cables	1 - 16

StarServe Enclosures

3105PENF	Professional Flush Mount Enclosure
3105PENS	Professional Surface Mount Enclosure

3105PENF Enclosure (Flush Mount)

3105PENS Enclosure (Surface Mount)

Features include:

- Choice of first fix or second fix mounting
- Suits different thicknesses of plaster board: 10mm, 13mm and 16mm
- Dual power outlet inside enclosure

Specifications:

Refer to page 14

RECOMMENDED CABLE ALLOWANCE	
Coax Cables	1 - 21
Telephone/Internet Cables	1 - 8
Data Cables	1 - 48

The size of the enclosure is determined by the number of cables and active equipment required inside the enclosure.
Choose an appropriate enclosure to accommodate the cabling required for the installation.

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StarServe Accessories

Patch Panels

For Light and Mid Size Enclosures		For Professional Enclosures	
8052/4RJSMB OR 3105ATPP2X4	8058/8RJSMB OR 3105APP8/5E	RJ88SMA5	RJ88SMA6
Telephone Patch Panel 2 lines in, 4 locations per line	Data 8 Port Patch Panel (8 outlets)	CAT 5e Keystone	CAT 6 Keystone

Ethernet Switches

95ESW5P10/

95ESW8P10/

Add one of these data switches to connect a data network within your home.

Compression Toolkit

3105CRFTK

Toolkit contents: 1 x Coax Stripping Tool, 1 x Compression Tool, (1 x Adaptors RCA, F Type and BNC,) 1 x Coax Cutter, 1 x Audible Cable Locater/Tester, 1 x Battery Style 23A 12V, 1 x F Type Male/Male Adaptor, 1 x Hex Crimper, 1x F-Type Screwdriver.

Fly Leads

3105FL318MBQ

3105FL318MWQ

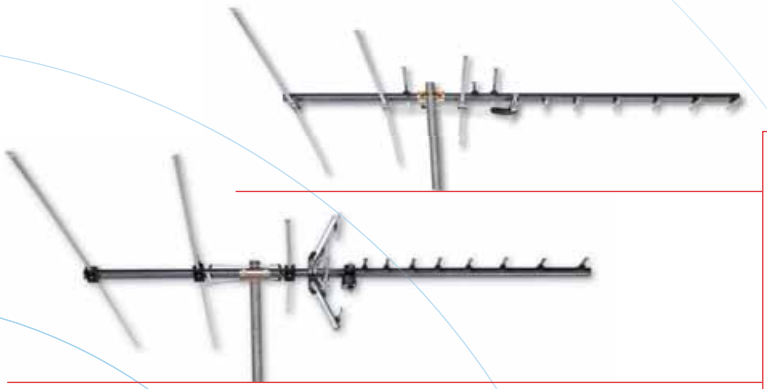
There is no substitute for quality TV reception.

We recommend RG6 Quadshield Fly Leads for all MATV and StarServe installations.

StarServe Complementary Product Range

Product	Description
3105RG6Q3B	Quad Shield RG6 Coaxial Cable
3105RJ6FC50	F-Type Connector
30PFM	F-Type Outlet (Allows IR Commands)
3105FL318MBQ	High Quality Fly Lead (BLACK)

Product	Description
3105FL318MWQ	High Quality Fly Lead (WHITE)
30RJ88SMA5	Data/Telephone Outlet CAT 5e Suits Clipsal Wall Plates
30RJ88SMA5SH	Data/Telephone Outlet CAT 5e, Shuttered Suits Clipsal Wall Plates
2D4P5IPV3B	Data/Telephone Cable Cat 5e



Your picture quality will only be as good as your antenna.
You must have a digital ready antenna for optimum TV reception.

For more information about antennas and mounting accessories, obtain a copy of the

TV Cabling Solutions Catalogue

(O/N 11954)

Demand the Best - Demand Digital Ready

STAR SERVE

For **further information** call: **1800 728 728**

(Australia only)

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D3-009

printed on recycled paper

CLIPCOM 16003 October 2008

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O/N 11245/03